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INFORMATION REPORT

COUNTRY USSR

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1. In official documents in the USSR, such as in reports concerning fuel consumption and in statements requesting fuel, heat capacity is not expressed in natural units but instead by predetermined coefficients. This is done because of the different calorific values for each of the different fuels. The government has established the calorific value of a standard fuel as 7000 kilogram calories per kilogram of fuel. Thus every fuel has its own conversion coefficient in terms of this standard fuel.

N' of a natural fuel equals KN

N equals standard fuel
K equals coefficient

Example:

(a) Anthracite slab of the Donets Basin, AP, has N' equal to 7240 kilogram calories/kg. Conversion coefficient K equals 1.034. N' equals 1.034 times N, which equals 1.034 times 7000.

(b) Run-of-mine coal with slack from the Podmoskovni Basin, RM, has N' equal to 2900 kg calories/kg. Conversion coefficient K equal to 0.415 for RM fuel. 50X1
Thus N' equals 0.415 times 7000 which is 2900 kg calories/kg.

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3. Following is a list of the solid fuels

Podmoskovniy Basin

(a) K - coarse coal

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Volatile matter 45%
Ash 15%
Sulphur 2.5%
Moisture 32%
N (Minimum heat capacity) 3235 kg calories/kg.

(b) O - nut coal
Volatile matter 45%
Ash 18%
Sulphur 2.5%
Moisture 32%
N (Minimum heat capacity) 3100 kg calories/kg

(c) MS - fine, pea coal
Volatile matter 45%
Ash 20%
Sulphur 2.5%
Moisture 32%
N (Minimum heat capacity) 2800 kg calories/kg

(d) RM - rum-of-mine coal with fines
Volatile matter 45%
Ash 20%
Sulphur 2.5%
Moisture 32%
N (Minimum heat capacity) 2900 kg calories/kg

Borovicheskiy Deposits, Leningrad Oblast', (no types)
Volatile matter 49%
Ash 20%
Sulphur 5%
Moisture 30%
N (Minimum heat capacity 3200 kg Calories/kg

Donets Basin

(a) AP - Anthracite slab coal
Volatile matter 4%
Ash 4.3%
Sulphur 1.4%
N (Minimum heat capacity) 7240 kg calories/kg

(b) AK - Anthracite coarse nut coal
Volatile matter 4%
Ash 6.5%
Sulphur 1.4%
Water 5.5%
N (Minimum heat capacity) 7100 kg calories/kg

(c) AM - Anthracite fine nut coal
Volatile matter 4%
Ash 12%
Sulphur 1.5%
Moisture 5.5%
N (Minimum heat capacity) 6600 kg calories/kg

(d) AS - Anthracite pea coal
Volatile matter 4%
Ash 13%
Sulphur 1.4%
Moisture 7%
N (Minimum heat capacity) 6000 kg calories/kg

(e) ARSH - run-of-mine coal with culm
Volatile matter 4%
Ash 11%
Sulphur 1.2%
Moisture 7%
N (Minimum heat capacity) 6600 kg calories/kg

(f) NSH - Anthracite culm
Volatile matter 4%
Ash 16%
Sulphur 1.5%
Moisture 7.5%
N (Minimum heat capacity 6000 kg calories/kg

(g) D - long flame coal
Volatile matter 44%

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Ash 11%
Sulphur 4%
Moisture 13%
N (Minimum heat capacity) 7700 kg calories/kg

(h) G - gas coal
Volatile matter 39%
Ash 11%
Sulphur 3%
Moisture 5%
N (Mimimum heat capacity) 8000 kg calories/kg

(i) PZH - Fat steam coal
Volatile matter 30%
Ash 11%
Sulphur 2.6%
Moisture 3%
N (Minimum heat capacity) 8400 kg calories/kg

(j) K - coke
Volatile matter 22%
Ash 11%
Sulphur 2%
Moisture 3.5%
N (Minimum heat capacity) 7100 kg calories/kg

(k) PS - Parovichnyy- (A) coking coal
Volatile matter 17%
Ash 10%
Sulphur 2%
Moisture 3.5 %
N (Minimum heat capacity) 7200 kg calories/kg

(l) T - lean coal
Volatile matter 14.3%
Ash 9%
Sulphur 1.5%
Moisture 3.5%
N (Minimum heat capacity) 7400 kg calories/kg

Pechorskiy Basin (no types)

(a) Necha coal
Volatile matter 42%
Ash 34%
Sulphur 0.5%
Moisture 21%
N (Minimum heat capacity) 3200 kg calories/kg

(b) Tal'bey coal
Volatile matter 42%
Ash 40%
Sulphur 1.5%
Moisture 24%
N (Minimum heat capacity) 2700 kg calories/kg

(c) Zaostrennyy coal
Volatile matter 42%
Ash 31%
Sulphur 1%
Moisture 21%
N (Minimum heat capacity) 3500 kg calories/kg

(d) Varkuta coal
Volatile matter 30%
Ash 12%
Sulphur 1%
Moisture 6%
N (Minimum heat capacity) 6700 kg calories/kg

Transcaucasus deposits

(a) Tkvibul'skiy - GL head coal
Volatile matter 41%
Ash 20%
Sulphur 1.5%
Moisture 11%
N (Minimum heat capacity) 5300 kg calories/kg

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(b) Tkvarchel'skiy - GPZH gas, parovichniy (Parovichniy is used to identify a second grade type of coking coal and is not translatable) fat coal
Volatile matter 37%
Ash 33%
Sulphur 1%
Moisture 6%
N (Minimum heat capacity) 4600 kg Calories/kg

Ural Coal fields

(a) Kizelovskiy deposit - GPZH gas, parovichniy fat coal
Volatile matter 41%
Ash 23%
Sulphur 8%
Moisture 5 .5%
N (Minimum heat capacity) 5700 kg calories/kg

(b) Chelyabinskiy deposits - B lignite coal
Volatile matter 41%
Ash 19%
Sulphur 1.5%
Moisture 19%
N (Minimum heat capacity) 4400 kg calories/kg

(c) Bogoslovskiy deposits - BR brown (lignite) run-of-mine coal
Volatile matter 43%
Ash 19%
Sulphur 0.5%
Moisture 29%
N (Minimum heat capacity) 3300 kg calories/kg

(d) Egorshinskiy deposits - AR anthracite, run-of-mine coal
Volatile matter 8%
Ash 19%
Sulphur 0.5%
Moisture 6%
N (Minimum heat capacity) 6000 kg calories/kg

(e) Poltavo-Bredinskiy deposits - AR anthracite, run-of-mine coal.
Volatile matter 3%
Ash 23%
Sulphur 1%
Moisture 4%
N (Minimum heat capacity) 5700 kg calories/kg

Kuznetskiy Basin

(a) Anzhero-Sudzhenskiy coal piles - PS parovichniy coking coal.
Volatile matter 16%
Ash 9%
Sulphur 0.5%
Moisture 4%
N (Minimum heat capacity) 7300 kg calories/kg

(b) Prokof'evskiy coal piles - no types.
Volatile matter 18%
Ash 7%
Sulphur 0.5%
Moisture 6%
N (Minimum heat capacity) 7100 kg calories/kg

(c) Kemerovskiy coal piles - no types
Volative matter 29%
Ash 14%
Sulphur 0.6%
Moisture 8%
N (Minimum heat capacity) 6200 kg calories/kg

(d) Lenenskiy coal piles - K coke
Volatile matter 41%
Ash 9%
Sulphur 0.5%
Moisture 6%
N (Minimum heat capacity) 6700 kg calories/kg

(e) E - power coal
Volatile matter 4%
Ash 9%
Sulphur 0.3%

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Moisture 9%
N (Minimum heat capacity) 6000 kg calories/kg

East Siberian coal fields

Cheremkhovskiy deposits - D long flame coal.
Volatile matter 45%
Ash 16%
Sulphur 1.4%
Moisture 10%
N (Minimum heat capacity) 5500 kg calories/kg

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